

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for content recording of a personal video recorder comprising:

- receiving a broadcast program;
- storing said broadcast program on a hard disk;
- receiving a user preference signal via a user interface, said user preference signal comprising a skipped signal indicating a scene segment of said broadcast program was skipped by a user during playback;
- generating a database table associated with said broadcast program, said associated database table containing a plurality of scene segment records created according to receipt of said user preference signal;
- employing a record of said associated database table that contains a start address field, an end address field, a user preference field generated from said user preference signal, and a show name field;
- providing to said user capacity to delete skipped scene segments, which were skipped by said user during playback using said user interface and recorded in said database table as being skipped;
- receiving a command from said user to delete skipped scene segments for a broadcast program according to said scene segment records in said database:
- in response to receiving said command from said user to delete skipped scenes, deleting said scene segment records which contain information of a corresponding plurality of skipped scene segments stored on said hard disk, wherein said scene segment records are deleted without deleting said corresponding plurality of skipped scene segments from said hard disk; and
- subsequent to said deleting, if the personal video recorder determines a recording space is not enough, then automatically regaining an available space on said hard disk storing said

plurality of skipped scene segments for future recording by deleting said plurality of skipped scene segments and by performing compaction to move wanted ~~scenes~~ scene segments into continuous block of memory, in which an ending address of one of the wanted scene segment is a starting address of another of the wanted scene segments in said associated database table, and to create a continuous free space.

2. (Previously Presented) The method for content recording of a personal video recorder of claim 1, further comprising: determining user preference by said user preference signal supplied through a user interface device wherein said user preference signal comprises a viewed signal, a skipped signal and an unviewed signal.

3. (Original) The method for content recording of a personal video recorder of claim 1, further comprising:

- determining a starting point and an ending point of said scene segments on said hard disk based on said user preference signal; and

- providing information of said starting point and said ending point of said plurality of scene segments for said associated database table wherein said plurality of scene segments are virtually divided on said hard disk.

4. (Previously Presented) The method for content recording of a personal video recorder of claim 1, further comprising:

- providing a playback which allows said user to play a stored broadcast program;
- consulting said user preference field in said associated database table during said playback of said stored broadcast program; and

- regenerating said associated database table during said playback of said stored broadcast program when said user wants to edit said broadcast program.

5. (Original) The method for content recording of a personal video recorder of claim 4, wherein said stored broadcast program is stored on said hard disk.

6. (Original) The method for content recording of a personal video recorder of claim 1, further comprising:

- providing a rewinding capacity of said broadcast program to said user,
- determining a starting point of a rewind scene segment in which said user wants to start replaying;
- providing information of said starting point of said rewind scene segments for said database table; and updating said associated database table in accordance with said user preference.

7. (Canceled).

8. (Currently Amended) A system for content recording of a personal video recorder comprising:

- means for receiving a broadcast program;
- means for storing said broadcast program on a hard disk;
- means for receiving a user preference signal via a user interface, said user preference signal comprising a skipped signal indicating a scene segment of said broadcast program was skipped by a user during playback;
- means for generating an associated database table in accordance with said user preference signal, said associated database table containing a plurality of scene segment records;
- means for employing a record of said associated database table that contains a start address field, an end address field, a user preference field generated from said user preference signal, and a show name field;
- means for providing to said user a capacity to delete skipped scene segments, which were skipped by said user during playback using said user interface and recorded in said database table as being skipped;
- means for receiving a command from said user to delete skipped scene segments for a broadcast program according to said scene segment records in said database;
- means for deleting said plurality of scene segment records which contain information of a corresponding plurality of skipped scene segments stored on said hard disk in response to receiving said command from said user to delete skipped scenes, wherein said scene segment

records are deleted without deleting said corresponding plurality of skipped scene segments from said hard disk; and

means for, subsequent to said deleting and if determined a recording space is not enough, automatically regaining an available space on said hard disk storing said plurality of skipped scene segments for future recording by deleting said plurality of skipped scene segments and by performing compaction to move wanted ~~scenes~~ scene segments into continuous block of memory, in which an ending address of one of the wanted scene segment is a starting address of another of the wanted scene segments in said associated database table, and to create continuous free space.

9. (Original) The system for content recording of a personal video recorder of claim 8, further comprising:

means for determining a starting point and an ending point of said scene segments on said hard disk based on said user preference signal; and

means for providing information of said starting point and said ending point of said plurality of scene segments for said database table wherein said plurality of scene segments are virtually divided on said hard disk.

10. (Original) The system for content recording of a personal video recorder of claim 8, further comprising:

means for determining a starting point and an ending point of said scene segments on said hard disk based on said user preference signal; and

means for providing information of said starting point and said ending point of said plurality of scene segments for said database table wherein said plurality of scene segments are virtually divided on said hard disk.

11. (Previously Presented) The system for content recording of a personal video recorder of claim 8, further comprising:

means for providing a playback which allow said user to play a stored broadcast program;

means for consulting said user preference field in said associated database table during said playback of said stored broadcast program; and

means for regenerating said associated database table during said playback of said stored broadcast program when said user wants to edit said broadcast program.

12. (Original) The system for content recoding of a personal video recorder of claim 11, wherein said stored broadcast program is stored on said hard disk before said user chooses to employ said playback.

13. (Original) The system for content recording of a personal video recorder of claim 8, further comprising:

- means for providing a rewinding capacity of said broadcast program to said user;
- means for determining a starting point of a rewind scene segment in which said user wants to start replaying;
- means for providing information of said starting point of said rewind scene segments for said database table; and
- means for updating said associated database table in accordance with said user preference.

14-24. (Canceled).

25. (Currently Amended) A method for content recording of a personal video recorder comprising:

- receiving a broadcast program;
- storing said broadcast program on a hard disk;
- receiving a user preference signal via a user interface, said user preference signal comprising a skipped signal indicating a scene segment of said broadcast program was skipped by a user during playback;
- generating an associated database table based upon said user preference signal received from said user interface, said associated database table containing a plurality of scene segment records corresponding to a plurality of scene segments of said broadcast program, said scene segments being defined in response to user preference signals received via said user interface,

said scene segment records of said associated database table containing a start address field, an end address field, a user preference field, and a show name field;

upon receiving a skipped signal, generating a skipped record that is one of said plurality of scene segment records, the skipped record containing a start address and an end address of the scene segment that was skipped by the user during playback, the scene segment being one of said plurality of scene segments of said broadcast program;

providing to said user a capacity to delete skipped scene segments, which were skipped by said user during playback using said user interface;

receiving a command from said user to delete skipped scene segments for a broadcast program according to said scene segment records in said database;

deleting said scene segment records which contain information corresponding to skipped scene segments stored on said hard disk upon reception of a user command; and

if the personal video recorder determines a recording space is not enough, then automatically performing compaction to move wanted ~~scenes~~ scene segments into continuous block of memory, in which an ending address of one of the wanted scene segment is a starting address of another of the wanted scene segments in said associated database table, and regain a continuous available space on said hard disk storing said plurality of skipped scene segments for future recording.

26. (Previously presented) The method for content recording of a personal video recorder of claim 25, wherein said scene segment that was skipped by the user during playback is a commercial scene.

27. (Previously presented) The method for content recording of a personal video recorder of claim 25, wherein said user interface comprises a fast forward button and wherein said skipped signal is generated when said user presses the fast forward button.

28. (Previously presented) The method for content recording of a personal video recorder of claim 27, wherein said user interface further comprises a pause button and wherein said unviewed signal is generated when said user presses the pause button.

29. (Previously presented) The method for content recording of a personal video recorder of claim 1, wherein said skipped scenes are commercial scenes.

30. (Previously presented) The method for content recording of a personal video recorder of claim 1, wherein said record is a skipped record designating a scene that was skipped by said user during playback.

31. (Previously presented) The method for content recording of a personal video recorder of claim 1, further comprising a step of generating a skipped record of the database table upon receiving a skipped signal, the skipped record containing a start address field and an end address field which define the scene segment that was skipped by the user during playback.

32. (Previously presented) The method for content recording of a personal video recorder of claim 1, wherein said user interface comprises a fast forward button and wherein said skipped signal is generated when said user presses the fast forward button.

33. (Previously presented) The method for content recording of a personal video recorder of claim 32, wherein said user interface further comprises a pause button and wherein said unviewed signal is generated when said user presses the pause button.